AGROWLYTE

Peracetic Acid vs. Agrowlyte

(HOCl) Disinfectant Comparison

Choose Agrowlyte (HOCl) Over Peracetic Acid

In today's food and meat processing environments, safety, efficiency, and sustainability are no longer optional—they're essential. While Peracetic Acid (PAA) has long been used as a sanitizer, it presents growing concerns related to worker safety, chemical volatility, and environmental compliance. Enter Agrowlyte, a next-generation solution powered by hypochlorous acid (HOCl) that offers equal or superior antimicrobial performance with dramatically lower chemical, operational, and regulatory burdens. This comparison outlines the key differences and shows why an increasing number of modern facilities are making the switch.

Category	Peracetic Acid (PAA)	Agrowlyte (Hypochlorous Acid - HOCl)
Worker Safety	Highly reactive; can cause burns, respiratory irritation, and long-term lung damage. Requires extensive PPE and safety protocols	Non-irritating, nontoxic, and safe to handle without PPE. No corrosive fumes. Ideal for daily, routine use
Operational Reliability	Unstable; degrades into acetic acid and hydrogen peroxide, needing frequent monitoring and strict storage.	Stable at low concentrations. Consistent performance with longer shelf life. Reliable for daily production cycles.
Cost & Simplicity	Requires chemical storage, handling, mixing, and waste management. Higher PPE and insurance costs	On-site generation from salt + water = lower chemical, labor, and insurance costs. No dilution or disposal complexity
Antimicrobial Performance	Effective but requires higher concentration and longer contact times. Used mainly in CIP	Kills in 30 sec – 2 min at 20–200 ppm. Penetrates bio-films. Up to 100x more effective than bleach
Environmental Impact	Breaks down into acetic acid and H_2O_2, which can alter pH in waste streams	Breaks down into salt and water. No environmental compliance issues. Safer for disposal and sustainability reporting.

Resulting Impact

By switching from PAA to Agrowlyte, meat processing facilities can realize:

- 25–40% reduction in total sanitation costs
- Improved employee safety and satisfaction
- Reduced environmental reporting burden
- Simplified regulatory and audit compliance
- These benefits translate directly into lower operating risks, higher throughput, and improved brand reputation in both conventional and organic markets.

Sustainability Advantages

Agrowlyte is a green chemistry solution that breaks down into non-toxic byproducts—salt and water. With no harmful residues, it reduces the chemical load on wastewater systems and is safer for the environment, equipment, and people.

- No corrosive effluents
- No contribution to chemical resistance
- Ideal for zero-waste and ESG-focused operations
- Compatible with organic labeling and regenerative practices

Bottom Line

Agrowlyte (HOCl) is more than a replacement for PAA—it's a cleaner, safer, and more cost-effective future for meat processing sanitation. It reduces chemical risk, improves operational flexibility, and helps companies meet the growing demand for sustainable, food-safe, and worker-friendly facilities.

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FDA Conforms to Regulations

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